



MARSHALL STAR

Marshall Space Flight Center

May 17, 2001

Center Director announces new Second Generation Reusable Launch Vehicle Program Office at Marshall

by Marianne Higgins

The Second Generation Reusable Launch Vehicle office at the Marshall Center — the office that oversees the Space Launch Initiative — will now report directly to Center Director Art Stephenson. This program previously reported to the director of the Space Transportation Directorate.

The shift comes with the growth of the Space Launch Initiative (SLI), a one-year-old NASA initiative designed to develop technologies and lead to creation of a second generation reusable launch vehicle.

"The Space Launch Initiative is NASA's No. 1 development program,"

Stephenson said. "By realigning our office functions, we provide the Second Generation Program Office, and the managers and engineers supporting it, the single program focus needed to meet the goals we have set."

The goals of the Space Launch Initiative are to reduce the cost of launch to low earth orbit to \$1,000 per pound of payload and improve safety to loss of crew to 1 in 10,000 flights.

Dennis E. Smith, former deputy director of Marshall's Space Transportation Directorate, will head the Second Generation Program Office. Dan

See Second Gen on page 3



Photo by Jeff Wolfe, NASA/Marshall Space Flight Center

Center Director Art Stephenson explains the new program office at Friday's all-hands meeting.

NASA, Marshall set to unveil standardized engineering standards

by Debra Valine

In June, NASA's Technical Standards Program Office at the Marshall Center will kick off a NASA-wide initiative that will revolutionize access to engineering standards. The Integrated Technical Standards Initiative not only will enhance access and use of technical standards information, but will result in a substantial cost savings to NASA.

For the past six years, Paul Gill, manager of NASA's Technical Standards Program at Marshall, has led a team in developing new and improved initiatives for support of engineer needs.

The NASA Integrated Technical Standards Initiative is an

See Standards on page 4

NASA awards highest honor for quality to Native American Services

NASA release

Nominated by the Marshall Center, Native American Services Inc. received NASA's highest honor for quality and technical performance, the George M. Low Award, for best small business service at a ceremony last Thursday.

Raytheon ITSS of Lanham, Md., received the award for large business service. Swales Aerospace of Beltsville, Md., was this year's winner in the small business product award.

NASA Administrator Dan Goldin presented the 2001 George M. Low Award, the nation's oldest award for organizational quality, at this year's 16th Annual NASA Continual Improvement and Reinvention Conference on Quality Management in Alexandria, Va.

See Low Awards on page 2



Photo by Dennis Olive, NASA/Marshall Space Flight Center

Working without lost time

Marshall Center Director Art Stephenson, left, presents Dr. Row Rogacki, Dennis Smith and Alberto Duarte of the Space Transportation Directorate with a certificate on May 7 for 1 million hours worked without a lost-time mishap.

NASA's Space Launch Initiative Web site debuts

The latest information about NASA's Space Launch Initiative (SLI) can now be found on the new SLI News Web site at:

<http://www.slinews.com>

The Space Launch Initiative News Web site features information about the program, government partners, technologies and the SLI management team.

Information about contracts with industry partners will be posted to this site as they are awarded.

The Space Launch Initiative is the key to opening up the space frontier for continued scientific exploration and economic expansion by making space flight affordable and safe for both the government and private industry. SLI is a

five-year, \$4.5 billion technology development program, leading to design and development of a second generation reusable launch vehicle.

The Marshall Center is NASA's Lead Center for Space Transportation Systems Development, overseeing the Space Launch Initiative.

Low Awards

Continued from page 1

"These companies meet and exceed the challenge of continuous quality, customer service and innovative management. Their commitment and leadership have been invaluable to NASA and the nation's industries," said Goldin.

NASA also presented the prestigious 2000 QASAR (Quality and Safety Achievement Recognition) Award to four individuals for their significant improvements to products and services for NASA. The award also recognizes — in addition to NASA employees — personnel from other government agencies, prime contractors and subcontractors for significant, quality improvement to products, programs, and management activities.

Jerry B. Holsomback, International Space Station Program Office at Johnson Space Center in Houston received the QASAR award for extraordinary leadership in providing engineering and management direction to NASA, its contractors, and its international partners. Dr. George L. Sarver III, System Development Branch and Space Station Biological Research Project at Ames Research Center in Moffett Field, Calif., received the award for

outstanding leadership, and distinguished management and technical support of the Safety and Mission Assurance Disciplines to significantly reduce risk and increase mission success for the Space Station Biological Research Project.

Michael A. Pokorski of the Defense Contract Management Agency in Grand Rapids, Mich., took the award for outstanding leadership that resulted in significant contributions to the safety of Space Shuttle mission STS-106 and subsequent missions by identifying discrepancies on critical orbiter hardware at vendor facilities.

David G. Sheriff, a corrective action engineer with United Space Alliance at Kennedy Space Center, Fla., received the honor for outstanding leadership in implementing a calibration program that meets the requirements in ISO-9001 and reduces calibrated instruments by 40 percent.

More information on the awards can be found on the Internet at:

<http://www.hq.nasa.gov/office/codeq/award.htm>

Marshall only non-mission control facility

POC authorized to issue hazardous commands

by Debra Valine

Now that the first experiments onboard the International Space Station are operational, mechanisms must be in place for handling hazardous situations, should any arise.

Johnson Space Center in Houston controls more than 3,000 core hazardous commands, and now the Marshall Center has the authority to issue 13 of those commands that relate to Environmental Control and Life Support Systems. Marshall is the only facility outside a Mission Control Center authorized for payload/core hazardous commanding.

A hazardous command is one that relates to a fatal crew injury or illness, and/or the loss of a critical function onboard the Station. Marshall's Payload Operations Center (POC) — the science command post for the Space Station — can authorize 13 vacuum vent core system commands needed to control payload rack environments.

"Hazardous commands would be used to take atmosphere out of an area, for instance, if an experiment needed to be vented, for example, a combustion experiment with noxious fumes that had to be let out," said Mike Savage, an electronics engineer in the Flight Projects Directorate who is Marshall's point of contact for command system software relating to payloads.

At the Payload Operations Center, only the payload rack officer and the command and payload multiplexer/demultiplexer officer are authorized to issue the commands. Once the need for a command has been determined, there are procedures that must be followed before the command can be executed.

To gain certification, the Marshall Center had to meet stringent procedural and training requirements. "After all the paperwork was in order, an inspection team came to certify us," Savage said. Certification was granted following the April 9 inspection.

The writer, employed by ASRI, is the Marshall Star editor.

Second Gen

Continued from page 1

Dumbacher has been named deputy manager.

NASA's Space Launch Initiative is the key to opening the space frontier for continued scientific exploration and economic expansion — by making space flight safe and affordable for both the government and private industry.

The Space Launch Initiative budget for

fiscal year 2001 is \$290 million, and increases to \$475 million for fiscal year 2002. Through mid-decade, the budget is \$4.8 billion.

The first contract awards for technology development are expected this week.

Marshall's Space Transportation Directorate will continue to provide propulsion and engineering expertise to the Space Launch Initiative as well as the

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Marshall Stars
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Roth, Whitaker receive Outstanding Engineer Awards

Marshall Center's Associate Director **Axel Roth** and Science Directorate Acting Director **Dr. Ann Whitaker** on April 27 received Auburn University's Outstanding Alumni Awards.

The awards were presented in recognition of achievement, leadership and high ethical standards in the engineering profession, civic awareness and loyalty to Auburn University's Samuel Ginn College of Engineering.

Roth graduated from Auburn University in 1959 with a bachelor's degree in aeronautical engineering. Whitaker graduated in 1989 with a doctorate in materials engineering.

"The award is presented not necessarily every year, but a lot of years by each of the departments in the School of Engineering.

Awards also are presented to students and professors from the various departments," said Roth, who received his award from the Aerospace Engineering Department.

"I really feel honored by receiving this award from the Engineering Department," Whitaker said. She also received a second outstanding alumni award from the Materials Engineering Department for recognition of her achievement, leadership, service and dedication to the engineering profession.



Roth



Whitaker

Standards

Continued from page 1

Agency-wide, full-text, technical standards system that will provide NASA engineers and managers with access to full-text standards products — standards, specifications, recommended practices, handbooks and guidelines — that are used by NASA.

The Marshall Center served as the pilot program for this initiative, and achieved approximately 75 percent savings over the previous cost of purchasing engineering standards.

“We used to build standards around programs,” Gill said. “There were very few common technical standards products.” The Integrated Technical Standards Initiative is consolidating standards used by multiple Centers and the Jet Propulsion Laboratory in Pasadena, Calif., into one set everyone can access and use.

“We are working to get away from government standards and come up with a set of NASA-preferred technical standards, based on products of non-government Standards Developing Organizations,” Gill said. “If we cannot find a comparable non-government standard, we will develop our own. So far, we have developed or converted 70 standards in-house, and have either adopted or plan to adopt more than 1,000 non-NASA technical standards.”

Gill’s team found some standards being used were outdated, and the programs and Centers were each buying essentially the same engineering standards separately, which was not cost-effective.

The Marshall Center alone was spending \$400,000 a year on specifications and standards. With some dedicated research and study, Gill’s team found that across NASA, more than \$3 million was being spent on technical standards products, including labor costs, because products were being separately purchased, often from the same supplier.

“We were able to negotiate a contract with improved service

from another vendor for \$100,000 for the pilot study,” Gill said. “This saved the Marshall Center alone about \$300,000.

“We then looked at consolidating standards information for NASA-wide use,” Gill said. “Just last week, we signed a five-year contract with USA Information Systems in Virginia Beach, Va., for an average of \$1.2 million a year to provide Agency-wide service. This should save NASA approximately \$2 million a year.”

This service will enable engineers to access technical standards from one Web site. Instead of the 45 engineering societies Marshall previously dealt with, there are now 108 societies available to anybody with a “nasa.gov” domain.

Under this program, engineers will have access to the most recently published standards. If an older document is accessed, the database will point the user to the newest version. It will tell the user if the change is editorial or technical, and allow program managers to decide whether to make the change or not.

“In the last six months, we have identified 40 lessons learned databases that contain aerospace engineering information that may apply to NASA activities,” Gill said. “We are in the process of linking the appropriate lessons learned back to NASA-adopted standards. The lessons learned are incorporated so that engineers can use that information to make decisions.

“No one else has a system like ours,” Gill said. “We are collaborating with the National Security Agency and the Environmental protection agency, who are interested in modeling their standardization programs after the NASA program.

The NASA Technical Standard Program is sponsored by the NASA Chief Engineer and managed by Marshall as the Lead Center.

For more information, visit the Web at :

<http://standards.nasa.gov>

The writer, employed by ASRI, is the Marshall Star editor.



Photo by Emmett Given, NASA/Marshall Space Flight Center

Telling Marshall's story

Marshall employees Janie Crawford, left, and Cathy Green, second from left, present Charlene Sauby and her children Connor and Jonah with posters and information about the Marshall Center during Public Service Recognition Week at Madison Square Mall Thursday.

Chandra project scientist doubles as Scrabble expert

by Debra Valine

Folks at the Marshall Center may know him as Dr. Martin Weisskopf, project scientist for the Chandra X-ray Observatory. But he also has achieved a level of notoriety for his hobby: He's an expert-level tournament Scrabble player.

For Weisskopf, it's more than a board game. "It's a little different than playing around the kitchen table at home," Weisskopf said. "We have rankings just like chess players." He ranks in the top 100-200 tournament players in the United States, making him what he calls a low-level expert. "I like to think that's because I have other things to do," he said.

"We have people who range from those who play for fun to those who study words one or two hours a day," said Weisskopf, who can often be found with flashcards at meetings. The rankings are similar to tennis seeds. A person's seed — or rating — determines what division he or she will play in the tournament.

Tournaments are round robin or king of the hill, with the winner determined by won-loss record and point spread. They are played with chess clocks, word judges and official dictionaries, and range from local to regional, national and world in nature.

"My strategy is word power," Weisskopf said. "I have a reasonably good knowledge of words. Twenty-thousand words in a language is considered fluent. I have 80- to 90-thousand words."



Photo by Terry Leibold, NASA/Marshall Space Flight Center

Martin Weisskopf, right, and his wife, Mary Ellen, met through a Huntsville Scrabble Club.

"Many countries use the same word list we do, and other countries use a different dictionary," Weisskopf said. "It gets confusing when we play in the world tournament." The world tournament is played every two years.

The five-day master's tournament is in Cincinnati in August, and Weisskopf plans to be there. More than 15,000 players are expected to attend the annual Scrabble championships later this year in Thailand.

"I started playing Scrabble at home as a child," Weisskopf said, "but I didn't get into tournaments until 1982 in Huntsville. There was a tournament at the Huntsville-Madison County Public Library. I thought I was pretty good at the time, but I got my butt kicked."

In 1984, after playing in a couple more humbling tournaments, Weisskopf joined a Scrabble club. "I met my wife Mary Ellen through the Scrabble club. She beat me the first couple hundred times we played." Mary Ellen teaches computer science at the University of Alabama in Huntsville, and also plays tournament-level Scrabble.

Weisskopf, who has won tournaments in Reno, Nev.; Jackson, Miss.; and Jonesboro, Ark., employs an open strategy when playing Scrabble. Creating words in a parallel formation is considered a closed game. An open game is more perpendicular with longer words and more opportunities to form other words.

"My strategy is word power," Weisskopf said. "I have a reasonably good knowledge of words. Twenty-thousand words in a language is considered fluent. I have 80- to 90-thousand words."

Anyone looking for a tournament can usually find one, he said. The National Scrabble Association has a Web site that lists locations. Over Memorial Day weekend, there is a tournament in Elizabethtown, Ky. The Weisskopfs will probably be there.

For more information on Scrabble and upcoming tournaments, visit the Web at: <http://www.scrabble-assoc.com/>

The writer, employed by ASRI, is the Marshall Star editor.

Review safety tips before operating lawn equipment

from the Marshall Safety Office

Spring is here and for many of us that means yard work. Through the years we have progressed from the manual push type — to gas powered push mowers — to riding mowers. Also, hedge trimmer, weed trimmers and lawn edgers have become important tools for helping us keep a beautiful lawn.

No matter what type of tools or equipment you're using today, you need to take a few minutes to review safety practices. Yes, they are just common sense, but people continue to injure themselves every year.

Did you know that hospital emergency rooms nationwide treat about 87,000 lawn mower injuries a year? More than 20,000 are under age 25, including 10,000 younger than 15. Injuries include deep cuts, loss of fingers and toes, broken and dislocated bones, burns, eye injuries, and injuries from objects flying out from under the mower.

In general

- Before mowing, trimming or edging, read the owner's manual and pay particular attention to safety recommendations.
- Be sure all protective devices, such as guards or shields, are in place before operating.
- Start and refuel a mower outdoors, not in a garage or shed. Mowers should be refueled with the motor turned off and cool.
- Store gasoline outside the house and away from any heat source.
- Wear sturdy shoes with rough soles. Never go barefoot or

wear cloth shoes or sandals.

- Use protective eyewear and hearing protection.
- Don't allow children younger than 14 to use ride-on mowers. Do not allow children younger than 12 to use walk-behind mowers.
- Clear the lawn of sticks, stones, toys and anything else that might be flung by the mower, trimmer or edger.
- While the lawn is being mowed, keep others away to ensure their safety. A mower blade can pick up and throw objects with force sufficient to seriously injure or kill.
- Keep hands and feet away from the mower housing, and never unclog the mower when it's running.
- Don't mow, trim or edge "blind spots." There may be hidden obstacles under bushes or hedges, or in trees.
- Be aware of the lawn's surface; watch out for "pot holes" or tree roots.
- Never leave equipment running, or tools laying where others might stumble over them.

For gasoline mowers

- Fill the tank before starting and don't refill it after the engine is hot.
- Never dangle gas cans from mower handles where a hot exhaust pipe could ignite escaping fumes and cause an explosion.
- Start the mower on level ground where you have firm footing. Mow parallel to a slope. Never pull the mower toward you — always push it.
- Always turn off the mower and disconnect the spark plug wire before unclogging the machine or adjusting it. Gasoline mowers can start even when they're turned off if the blade is rotated.

For riding mowers

- Drive up and down slopes when operating riding mowers.

For electric mowers

- Check cords and plugs. Use a ground-fault interrupter to ensure your safety.
- If your electric mower isn't labeled "doubled insulated," never plug it into anything but a grounded (3-prong) outlet.

Hedge trimmers/weed trimmers/lawn edgers

- Wear safety eye protection. It's also a good idea to wear long pants when doing lawn work to protect from abrasions.
- Never use electric-hedge trimmers over your head. If the trimmer becomes lodged on something, disconnect power source before attempting to dislodge it.
- Remember weed trimmers are intended for groundwork only, not for overhead work in trees or bushes.
- When using a weed trimmer, disconnect power before advancing the line if it is a manual-feed trimmer.

Wear sunscreen — and use common sense

Whether you are mowing your lawn, or just enjoying the day with family, don't forget the sunscreen.

A recent survey by the American Academy of Dermatology shows that some parents who applied sunblock to their children allowed those children to be out in the sun longer than they normally would have. Health experts equate that behavior with a driver going faster just because a car has anti-lock brakes.

Remember that sunblock doesn't completely protect skin from the damaging effects of the sun, researchers say. So take other precautions to prevent skin damage, such as limiting your time in the sun to no more than two to three hours during the peak hours of 10 a.m. and 4 p.m. Also, reapply sunblock on a regular basis when you're out in the sun.

— Adapted from *The New York Times*

Center Announcements

Red Cross blood drive

The American Red Cross will hold its monthly blood drive Friday at Bldg. 4752. There are shortages in all blood types, especially O positive and O negative. Donors taking antibiotics will not be allowed to donate. The schedule is as follows: A-B, 8 a.m.; C-F, 8:30 a.m.; G-H, 9 a.m.; I-L, 9:30 a.m.; M-O, 10 a.m.; P-S, 10:30 a.m.; T-Z 11 a.m. All donors will receive a gift certificate for a medium, one topping Domino's Pizza.

McBrayer farewell reception

Everyone is invited to attend a farewell reception honoring Robert O. McBrayer from 4-6 p.m. May 31 in the Bldg. 4203 cafeteria. Tickets are \$7.50 and may be purchased from administrative officers. Retirees and others off-site may purchase tickets from Helen Eddleman at (256) 544-4130, Bldg. 4201, room 600H.

Economic Summit

The annual Tennessee Valley Economic Summit will be held May 28-30 at the Hyatt Regency Hotel on Capitol Hill in Washington, D.C. The summit will bring together key leaders in government, industry and academia to discuss issues of key importance to the Valley Corridor. Sessions include a national forum on science and research, the future of our national aviation, space and defense policy, the development of a national energy policy, the redevelopment of underutilized public and private sector manufacturing sites, emerging information technologies and transportation innovations.

Information conference, expo

The Marshall Center is teaming with the U.S. Army Aviation and Missile Command and the Ballistic Missile Defense Organization to sponsor an Information Assurance Conference and Exposition June 6-7 at the Bob Jones Auditorium in Bldg. 5304 in the Sparkman Center. Admission is free. Register on the Web at: www.TechnologyForums.com

Blood pressure screenings

The Marshall Center is offering blood pressure screenings for employees. Employees may stop by the Medical Center in Bldg. 4249 any afternoon between noon-3 p.m. HEMSI paramedics assigned to Marshall will stop at the following designated buildings once during May to perform blood pressure checks. The buildings are 4200, 4203 and 4610. More information on these visits will be available at a later date.

Upcoming Classes

Listening, coping classes

Workshops on coping with tough times and improving listening skills will be held June 28 in Bldg. 4200, room G-13D. Coping with Tough Times: How You Can Turn the Negatives in Your Life into Positives will be from 8-11:30 a.m. The course teaches how to activate the positive forces within you and eliminate the negatives from your personal and professional life. Improve Your On-the-Job Listening and Speaking Skills will be from 12:30-4 p.m. This course teaches how to communicate well with others. For more information, call Chrissa Hall at 544-5468. Register via AdminSTAR.

Clubs and Meetings

Annual Stamp Show

The Huntsville Philatelic Club will hold its annual stamp show June 2-3 at Huntsville's Tom Beville Center. This year's show honors the International Space Station. Admission is free. For more information, call Kathy Campbell at 881-0941.

Shuttle Buddies meet

The Shuttle Buddies will meet for breakfast at 9 a.m. May 29 at Mullins Restaurant on Andrew Jackson Way. For more information, call Deemer Self at 881-7757 or Gail Wynn at 852-8189.

MOO meets

The Management Operations Office (MOO) retirees will meet for breakfast/lunch at 10 a.m. at the Cracker Barrel Restaurant in Madison on May 24 (4th Thursday of each month). All retirees, former employees and guests are invited. For more information, call 539-0042.

Instrumentation Division meets

Members and friends of the Measuring Branch, Telemetry Branch and Radio Frequency Branch are invited to meet the first Tuesday of each month at 11 a.m. at the Redstone Golf Club Coffee Shop. For more information, call Tom Escue at (256) 232-1549.

Dance lessons

Waltz and cha-cha dance lessons are scheduled for the Mondays in May at Saint Stephens Episcopal Church on Whitesburg Drive, second building north of Lily Flag Road. Beginner and intermediate lessons will both be taught each Monday from 7-8 p.m. Cost is \$5 per person per night. For more information, call Woody Bombara at 650-0200.

Sports

Fishing results

Tim Smith and Don McQueen caught five fish for a total of 12.52 pounds to win the MARS fishing tournament held May 12 at the Decatur Riverwalk Marina. Ross Evans and Charles Cothran placed second with five fish weighing 12.38 pounds. Charlie Nola and John Pea caught five fish weighing 9.31 pounds for third place. Ross Evans took big fish honors with a large-mouth bass weighing 4.8 pounds. The next fishing tournament will be June 9 on Gunter's Lake at Browns Creek. For more information, call Don McQueen at 544-9073, John Pea at 544-8437, or Charlie Nola at 544-6367.

Employee Ads

Miscellaneous

- ★ Antique rope bed, 3/4 size with mattress and box spring, \$100. Small computer desk, \$30. 883-5396
- ★ 1987 Baldwin Classic piano, oak finish, 3' tall, \$1,500. 852-7387 after 5 p.m.
- ★ Truck bedliner for Chevy S10, \$40; Stephen King books (30), hard covers, some never opened, best offer. 430-3413 6-9 p.m.
- ★ Snap-on roll-around toolbox, extra large, heavy duty, 16 drawers, \$2,000 obo. 858-5552
- ★ Sofa and love seat, \$150; matching chair and ottoman, \$50; coffee and end tables, \$75. 882-2654
- ★ Minolta Maxuum autofocus zoom 35-80mm lens, \$50. 837-3192
- ★ Windows, wood frame, double pane, 30"x35", \$35 ea.; wood office desk w/ drawers, refinished, \$150. 830-0866
- ★ AKC registered Basset Hound puppies, one male and one female, 8-weeks old, \$200. 574-5923
- ★ Sears Coldspot 5 ft. chest freezer, \$100 obo. 650-5375
- ★ 1998 Coleman SeaPine pop-up camper; 13,500 BTU a/c, 3-way refrigerator, stove, awning, sleeps 6-8, \$4,500 obo. 653-3625
- ★ Golden Ram golf clubs, 2-sw, putter, Sunday bag, \$100; Adams titanium drive 9deg loft, \$125. 828-0801
- ★ Wicker patio set; 2 chairs, loveseat, table, 6' shelf, \$80; Wilson golf bag, \$35. 325-6000
- ★ Garmin E-map GPS w/mb memory, includes built-in base map; cities, highways, exit services, \$195. 461-6337
- ★ Men's K2 reflex in-line skates, size 9, black w/red trim, new in box, \$65. 533-5942
- ★ Entertainment center, cherry, fits up to 25" TV, \$100. 464-7962
- ★ 1996 Evinrude outboard boat motor, 6HP, 2-stroke, less than 20 hrs. use, \$850. 739-9775
- ★ Honda mini trail CT-70 motorcycle, stored several years, \$275. 883-0686
- ★ Back Street Boys tickets, Saturday, June 23, Nashville, will sell at cost, great seats. 772-3303
- ★ Aluminum boat, camoflage pattern, Johnson outboard, trailer, \$425. 205-454-

2157/931-455-2465

- ★ Carter go-cart, 6HP, 2-seater, full roll cage, \$600 obo. 829-1054 after 5 p.m.
- ★ Apple 6100/DOS computer system w/ printer, \$200 obo; PC/MAC portable optical drive, 4GB of RW disks/software, \$100 obo. 828-6213
- ★ Pool table Brunswick, Paragon oak w/ cherry finish, navy blue felt, 1" slate, drop leather pockets, all accessories, \$2,000. 509-3392
- ★ Callaway steel-head irons/woods w/ Hawkeye carry bag, \$900. 527-5042
- ★ Kitchen table, solid wood, w/six chairs, \$200; new Cherry claw feet coffee table and end table, \$150. 509-3392
- ★ Little Tykes Play Slide and Work Shop, \$25 each or \$45 for both. 931-433-0815
- ★ 1988 16' Vision bass boat, 75HP, Mariner motor, trolling motor, 3-batteries, \$3,500 obo. 851-0832
- ★ 1997 Ranger/R70 Sport boat, Mercury Force 120, less than 100 hours, Lowrance electronics, \$8,500. 350-1266

Vehicles

- ★ 1995 Honda EX, white, 5-speed, new tires, keyless entry, 89K miles, 4-door, sun-roof, \$9,895 obo. 582-5210
- ★ 1979 Chevy pickup, 93K miles, automatic, long bed, tool box, good tires, \$1,450. 650-0677
- ★ 1989 Honda LXI coupe, 180K miles, CD, air, 5-speed, alloy wheels BFG tires, \$3000. 880-7319
- ★ 1992 Ford Tempo, high mileage, 6 cylinder, red, 25-30 mpg, auto, air, \$2,000. 256-586-5442
- ★ 1965 Chrysler New Yorker, 80K actual miles, 413cid, automatic, stored inside, \$1,950 obo. 256-753-2278
- ★ 1992 Mitsubishi Galant, maroon, auto, 4-door sedan, \$3,800. 533-2254
- ★ 1992 Dodge Caravan van, low miles, loaded, new tires, \$4,200 obo. 461-8182
- ★ 2000 Nissan Altima GLE, one-owner, 26K miles, warranty, PB/PS, leather, auto, sound system, \$15,750. 774-3598
- ★ 1991 Honda Accord, green, AM/FM, cassette, new timing belt, 118K miles,

\$4,500. 350-2927

- ★ 1969 Camaro, everything new, prime red, needs paint & upholstery, 400 SB, 4-speed Muncie, 3.73 rear-end, \$9,000. 509-3392

Wanted

- ★ Mounted deer head. 880-7172
- ★ Graco double stroller, front/rear. 882-9042
- ★ Power inverter, 12-volt, DC to AC, 600 to 1000 watt continuous, in good condition; 50-watt solar panels, 5-years old or newer. 682-5181

Found

- ★ Pliers, Bldg. 4200. call 544-4758 to claim/identify
- ★ Bracelet, gold and silver link, buckle fastener, found East side of Bldg. 4708. Call 544-4931 to identify/claim.

Free

- ★ To good homes, kittens, beige tabbies, 7 weeks old, 2 male, 2 female. 533-2254
- ★ Kittens, 4 males, 7 weeks old. 858-0497 or 564-4112/pager

Obituaries

Cornett, Varge, 86, of Huntsville, died May 7. He retired from Marshall in 1980 where he worked in experimental facilities and equipment. He is survived by his wife, Coralie D. Cornett.

Palladino, Patsy G., 80, of Huntsville, died May 7. He retired from Marshall in 1989 where he worked as an aerospace engineering technician. He is survived by his wife, Julia Palladino.

Hargrove, Richard M. Jr., 66, of Huntsville, died May 5. He retired from Marshall in 1999 where he worked on aerospace flight systems.

Rowell, James G., 71, of Huntsville, died May 4. He retired from Marshall in 1986 where he worked as an aerospace engineer. He is survived by his wife, Jean Sanders Rowell.

Kirsopp, Frank L. Jr., 70, of Huntsville, died April 29. He retired from Marshall in 1994 where he worked as a contract specialist. He is survived by his wife, Clara Watson Kirsopp.

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